



1989

Babani Electronics Radio & Computer Books

**THE FINEST VALUE TECHNICAL BOOKS
AVAILABLE!!**

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1. DATA & REFERENCE

1.1 SELECTOR GUIDES

TRANSISTOR SELECTOR GUIDE £4.95

BP234

J. C. J. van de Ven



Prepared using the latest computerised techniques, from a vast database of electronic component specifications, this unique guide offers a range of selection tables compiled so as to be of maximum use to all electronics engineers, designers and hobbyists.

SECTION 1: Serves as a detailed introduction covering component markings, codings and standards, as well as explaining the symbols used and how the tables are arranged.

SECTION 2: Tabulates in alpha-numeric sequence the comprehensive speci-

fications of over 1400 JEDEC, JIS, PRO-ELECTRON and brand specific designated devices.

SECTION 3: Tabulates the devices in a similar fashion to the previous section but this time they are arranged by case type.

SECTION 4: Considers particular limits to the electrical parameters when compiling the tables and it is sub-divided as follows:-

- (1) Darlington transistors
- (2) Devices that can handle voltages upwards of 300V
- (3) Devices that can handle currents upwards of 5A
- (4) Devices that can handle powers upwards of 5W
- (5) Radio frequency devices that operate upwards of 30MHz
- (6) FETs

SECTION 5: Illustrates package outlines and leadouts.

SECTION 6: Consists of a SMD (surface mounting device) markings conversion list.

0 85934 179 8 1987 178 x 130 mm 192 pages

POWER SELECTOR GUIDE £4.95

BP235

J. C. J. van de Ven

Similar in style and presentation to BP234 but covers Power devices, including Diodes, Thyristors, Triacs, FET's and Power transistors etc.

0 85934 180 1 1987 178 x 130 mm 160 pages

1.2 EQUIVALENTS

DIGITAL IC EQUIVALENTS AND PIN CONNECTIONS

BP140

£5.95

A. Michaels

Shows equivalents and pin connections of a popular user-orientated selection of European, American and Japanese digital ICs. Also includes details of packaging, families, functions, manufacturer and country of origin.

0 85934 115 1 1985 264 x 195 mm 320 pages

LINEAR IC EQUIVALENTS AND PIN CONNECTIONS

BP141

£5.95

A. Michaels

Shows equivalents and pin connections of a popular user-orientated selection of European, American and Japanese linear ICs. Also includes details of functions, manufacturer, and country of origin.

0 85934 116 X 1985 264 x 195 mm 256 pages

1. DATA & REFERENCE

INTERNATIONAL TRANSISTOR EQUIVALENTS GUIDE

£3.50

A. Michaels

Helps the reader to find possible substitutes for a popular user-orientated selection of European, American and Japanese transistors. Also shows material type, polarity, manufacturer and use.

0 85934 060 0 1981 178 x 111 mm 320 pages

INTERNATIONAL DIODE EQUIVALENTS GUIDE

£2.25

A. Michaels



Helps the user in finding possible substitutes for a large user-orientated selection of the many different types of semiconductor diodes that are available. Besides simple rectifier diodes, also included are zener diodes, LEDs, diacs, triacs, thyristors, OCIs, photo and display diodes. Also wherever possible, material type, function or type of diode, and country of origin are shown.

0 85934 083 X 1982 178 x 111 mm 144 pages

1.3 GENERAL

See also book numbers 160, BP251 and BP255

ELECTRONIC HOBBYISTS HANDBOOK

£4.95

R. A. Penfold

Mr. R. A. Penfold has used his vast knowledge of hobby electronics to provide a useful collection of data for the amateur electronics enthusiast, in a single source where it can be quickly and easily located. It includes a great deal of data on likely topics of interest, such as colour codes, integrated circuit pinouts, transistor leadout diagrams and data, basic circuit building blocks, etc. Some knowledge of electronics may be needed in order to make use of the information, but, in most cases, the reader is not simply provided with raw data, and where appropriate background information and explanatory notes are provided.

0 85934 178 X 1987 264 x 195 mm 96 pages

HOW TO IDENTIFY UNMARKED ICs

£0.95

K. H. Recorr

Shows the reader how, with just a test-meter, to go about recording the particular signature of an unmarked IC which should enable the IC to then be identified with reference to manufacturers' or other data. By now you are probably wondering what an IC signature is. It is a specially plotted chart produced by measuring the resistances between all terminal pairs of an IC. Originally published as an article in *Radio-Electronics*, one of the leading magazines in the U.S.A.

0 85934 076 7 1982 Chart

RADIO AND ELECTRONIC COLOUR CODES AND DATA CHART

£0.95

B. B. Babani

Covers many colour codes in use throughout the world, for most radio and electronic components. Includes resistors, capacitors, transformers, field coils, fuses, battery leads, speakers, etc.

0 85934 006 6 1971 Chart

1. DATA & REFERENCE

CHART OF RADIO, ELECTRONIC, SEMICONDUCTOR AND LOGIC SYMBOLS

£0.95

M. H. Babani

Illustrates the common, and many of the not-so-common, radio, electronic, semiconductor and logic symbols that are used in books, magazines and instruction manuals, etc., in most countries throughout the world.

0 85934 029 5 1975 Chart

RESISTOR SELECTION HANDBOOK

£0.60

B. B. Babani

Shows how to combine two preferred values of resistors to obtain virtually any required value of resistance. Also includes information about fixed resistors, standard ranges, colour codes and markings, power ratings and resistor calculations.

0 85934 031 7 1976 168 x 113 mm 48 pages

2. CIRCUITS & CONSTRUCTIONAL PROJECTS

2.1 ABSOLUTE BEGINNERS

See also book numbers BP92, BP99 and BP110

BEGINNERS GUIDE TO BUILDING ELECTRONIC PROJECTS

£1.95

R. A. Penfold

Shows the complete beginner how to tackle the practical side of electronics, so that he or she can confidently build the electronic projects that are regularly featured in the popular magazines and books. Also includes examples in the form of simple projects that you can build.

0 900162 68 6 1977 178 x 111 mm 112 pages

ELECTRONIC PROJECTS FOR BEGINNERS

£1.95

F. G. Rayer

Contains a wide range of easily made projects (including some that require no soldering) for the newcomer to electronics. Includes many actual component and wiring layouts to aid easy and successful construction.

0 85934 054 6 1978 178 x 111 mm 112 pages

IC PROJECTS FOR BEGINNERS

£1.95

F. G. Rayer

Offers a range of simple projects based around a number of popular and inexpensive linear and digital integrated circuits. With most projects, complete layout and/or point-to-point wiring diagrams are included to help simplify construction.

0 85934 072 4 1982 178 x 111 mm 112 pages

ELECTRONIC MODULES AND SYSTEMS FOR BEGINNERS

£3.95

O. Bishop

Shows the reader how to build a number of simple analogue and digital circuit modules, all suitable for battery operation, and all based on only 1 or 2 transistors or ICs. For each module there is a circuit diagram and description of how it works as well as clear constructional details.

0 85934 211 5 1989 178 x 111 mm 160 pages

30 SOLDERLESS

BREADBOARD PROJECTS—BOOK 1

£2.95

R. A. Penfold

Each project, which is designed to be built on a "Verobloc" breadboard, is presented in a similar fashion with a brief circuit description, circuit diagram, component layout diagram, components list and notes on construction and use where necessary. Wherever

2. CIRCUITS & CONSTRUCTIONAL PROJECTS

possible, the components used are common to several projects, hence with only a modest number of reasonably inexpensive components, it is possible to build in turn, every project shown. Recommended by BICC-VERO.

0 85934 082 1 1982 178 x 111 mm 160 pages

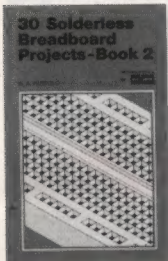
30 SOLDERLESS

BREADBOARD PROJECTS—BOOK 2

£2.25

BP113

R. A. Penfold



The companion volume to Book 1 (BP107) and presented in exactly the same style using "Verobloc". However, all the projects in this book are based on CMOS logic integrated circuits, whereas those in the first book were all designed using linear devices. The information contained in Book 1 about identifying components and using breadboards is not repeated here so that it is suggested that the absolute beginner starts with the first book. Recommended by BICC-VERO.

0 85934 088 0 1983 178 x 111 mm 160 pages

2.2 GENERAL ASSORTED

See also book numbers BP117 and BP118

POPULAR ELECTRONIC CIRCUITS—BOOK 1

£2.95

BP80

R. A. Penfold

Contains a wide range of circuits which are accompanied by a short text giving a brief introduction, circuit description and any special notes on construction and setting-up that may be necessary.

0 85934 055 4 1980 178 x 111 mm 160 pages

POPULAR ELECTRONIC CIRCUITS—BOOK 2

£2.95

BP98

R. A. Penfold

Again, provides a wide range of designs for electronic enthusiasts who are capable of producing working projects from just a circuit diagram without the aid of detailed constructional information. However, where relevant, any special setting-up procedures are described.

0 85934 073 2 1982 178 x 111 mm 160 pages

POPULAR ELECTRONIC PROJECTS

£2.50

BP49

R. A. Penfold

Provides a collection of the most popular types of circuits and projects covering a very wide range of interests, including Radio, Audio, Household and Test Equipment projects.

0 85934 053 8 1978 178 x 111 mm 144 pages

2.3 COMPONENT SPECIFIC

See also book number 160

MODERN OP-AMP PROJECTS

£1.95

BP106

R. A. Penfold

Includes a wide range of constructional projects which make use of the specialised operational amplifiers that are available today, including low noise, low distortion, ultra-high input impedance, low slew rate and high output current types. Circuits using transconductance types are also included.

0 85934 081 3 1982 178 x 111 mm 112 pages

2. CIRCUITS & CONSTRUCTIONAL PROJECTS

HOW TO USE OP-AMPS

£2.95

BP88

E. A. Parr



This book has been written as a designer's guide covering many operational amplifiers, serving both as a source book of circuits and a reference book for design calculations. The approach has been made as non-mathematical as possible and it is hoped, easily understandable by most readers, be they engineers or hobbyists.

0 85934 063 5 1982 178 x 111 mm 160 pages

IC 555 PROJECTS

£2.95

BP44

E. A. Parr

Every so often a device appears that is so useful that one wonders how life went on before without it. The 555 timer is such a device. Included in this book are basic and general circuits, motorcar and model railway circuits, alarms and noise-makers as well as a section on the 556, 558 and 559 timers

0 85934 047 3 1982 178 x 111 mm 176 pages

A PRACTICAL INTRODUCTION TO DIGITAL ICs

£2.50

225

D. W. Easterling

Introduces the reader practically to digital ICs, this book is mainly concerned with the TTL types such as the 7400 series. Besides a number of simple projects, the author has included the full practical construction of a logic circuit test set which will enable the reader to identify and test his own digital ICs. Also included are the full constructional details and ways of using a more ambitious project — the digital counter timer.

0 900162 66 X 1977 178 x 111 mm 80 pages

50 CIRCUITS USING 7400 SERIES ICs

£2.50

BP58

R. N. Soar

50 interesting and useful circuits and applications covering many different aspects of electronics using these freely obtainable, inexpensive and fantastically versatile series of devices.

0 900162 77 5 1979 178 x 111 mm 80 pages

DIGITAL IC PROJECTS

£1.95

BP84

F. G. Rayer

Contains both simple and more advanced projects and it is hoped that these will be found of help to the reader developing a knowledge of the workings of digital circuits.

To help the newcomer to the hobby, the author has included a number of board layouts and wiring diagrams. Also the more ambitious projects can be built and tested section by section and this should help avoid or correct faults that could otherwise be troublesome.

0 85934 059 7 1981 178 x 111 mm 96 pages

50 CIRCUITS USING GERMANIUM SILICON AND ZENER DIODES

£1.50

BP36

R. N. Soar

Contains 50 interesting and useful circuits and applications, covering many different branches of electronics, using one of the most simple and inexpensive of components — the diode. Includes the use of germanium and silicon signal diodes, silicon rectifier diodes and zener diodes, etc.

0 85934 039 2 1977 178 x 111 mm 64 pages

2. CIRCUITS & CONSTRUCTIONAL PROJECTS

50 SIMPLE LED CIRCUITS

£1.95

BP42

R. N. Soar

Contains 50 interesting and useful circuits and applications, covering many different branches of electronics, using one of the most inexpensive and freely available components — the light-emitting diode (LED). Also includes circuits for the 707 common anode display.
0 85934 043 4 1977 178 x 111 mm 64 pages

50 SIMPLE LED CIRCUITS—BOOK 2

£1.35

BP87

R. N. Soar

A further range of uses for the simple LED which complements those shown in book number BP42.

0 85934 062 7 1981 178 x 111 mm 64 pages

50 PROJECTS USING RELAYS, SCRs AND TRIACS

£2.95

BP37

F. G. Rayer

Relays, silicon controlled rectifiers (SCR's) and bi-directional triodes



(TRIAC's) have a wide range of applications in electronics. These may extend over the whole field of motor control; dimming and heat control; delayed, timing and light sensitive circuits and include warning devices, various novelties, light modulators, priority indicators, excess voltage breakers etc. This book gives tried and practical working circuits which should present the minimum of difficulty for the enthusiast to construct. In most of the circuits there is a wide latitude in component values and types, allowing easy modification of circuits or ready adaptation of them to individual needs.

0 85934 040 6 1977 178 x 111 mm 112 pages

50 (FET) FIELD EFFECT TRANSISTOR PROJECTS

£2.95

BP39

F. G. Rayer

Field-effect transistors (FETs) find applications in a wide variety of circuits. The projects described here include radio-frequency amplifiers and converters, test equipment and receiver radio-frequency amplifiers and converters, test equipment and receiver aids, tuners, receivers, mixers and tone controls, as well as various miscellaneous devices which are useful in the home.

The actual FET to be used, in most cases, is not critical and many suitable types will perform satisfactorily. The FET is a low-noise, high gain device with a multitude of uses, the dual gate being of particular use in mixers and other applications.

0 85934 042 2 1977 178 x 111 mm 112 pages

MINI-MATRIX BOARD PROJECTS

£2.50

BP99

R. A. Penfold

Although there are obviously limitations to the amount of circuitry that can be accommodated on a small circuit board, the versatility of modern components is such that it is possible to design a wide range of projects that can be easily built using just a handful of components including the stripboard.

This book does just that, in providing a selection of 20 useful and interesting circuits, all that can be built on a mini-matrix board which is just 24 holes by 10 copper strips in size.

0 85934 074 0 1982 178 x 111 mm 112 pages

2. CIRCUITS & CONSTRUCTIONAL PROJECTS

2.4 SUBJECT SPECIFIC

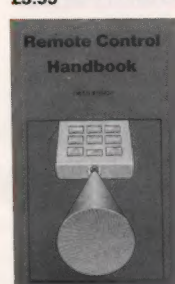
See also book numbers 220, 222, 226, BP29, BP74, BP90, BP105, BP122, BP124, BP130, BP131, BP171, BP173, BP174, BP182, BP185, BP186, BP245, BP247, and BP253

REMOTE CONTROL HANDBOOK

£3.95

BP240

O. Bishop



Replaces our original book BP73 and is aimed at the electronics enthusiast who wishes to experiment with remote control in its many aspects and forms.

0 85934 185 2 1988 178 x 111 mm 240 pages

ELECTRONIC CIRCUITS FOR THE COMPUTER CONTROL OF MODEL RAILWAYS

BP180

£2.95

R. A. Penfold

Shows the reader practical ways of using a number of the more popular micros for controlling, running and adding effects to model railways.

0 85934 154 2 1987 178 x 111 mm 96 pages

ELECTRONIC CIRCUITS FOR THE COMPUTER CONTROL OF ROBOTS

BP179

£2.95

R. A. Penfold

Provides information and circuits on computer control of electric motors (including stepper types), plus a range of useful sensors including visible light, infra-red, and ultrasonic types.

0 85934 153 4 1986 178 x 111 mm 96 pages

ELECTRONIC SCIENCE PROJECTS

£2.95

BP104

O. Bishop

These projects range in complexity from a simple colour temperature meter to an infra-red laser. There are novelties such as an electronic clock regulated by resonating spring, and an oscilloscope with solid-state display. There are scientific measuring instruments such as a pH meter and an electro-cardiometer. All projects have a strong scientific flavour. The way they work, and how to build and use them are fully explained.

0 85934 079 1 1982 178 x 111 mm 144 pages

MODEL RAILWAY PROJECTS

£2.95

BP95

R. A. Penfold

Provides a number of useful but reasonably simple projects for the model railway enthusiast to build, based on inexpensive and easily obtainable components.

The projects covered include such things as controllers, signal and sound effects units, and to help simplify construction, stripboard layouts are provided for each project.

0 85934 070 8 1981 178 x 111 mm 112 pages

ELECTRONIC PROJECTS FOR CARS AND BOATS

£1.95

BP94

R. A. Penfold

Describes fifteen fairly simple projects for use with a car and/or boat. Each project has an explanation of how the circuit works as well as constructional details including a stripboard layout

0 85934 069 4 1981 178 x 111 mm 96 pages

2. CIRCUITS & CONSTRUCTIONAL PROJECTS

ELECTRONICS SIMPLIFIED —CRYSTAL SET CONSTRUCTION

£1.75

F. A. Wilson

Especially written for those who wish to participate in the intricacies of electronics more through practical construction than by theoretical study. It is designed for all ages upwards from the day one can read intelligently and handle simple tools.

0 85934 067 8 1982 178 x 111 mm 80 pages

POWER SUPPLY PROJECTS

£2.50

R. A. Penfold



Mains power supplies are an essential part of many electronic projects.

This book gives a number of power supply designs, including simple unstabilised types, fixed voltage regulated types, and variable-voltage stabilised designs, the latter being primarily intended for use as bench supplies for the electronics workshop. The designs provided are all low-voltage types for semi-conductor circuits.

The book should also help the reader to design his own power supplies.

There are other types of power supply apart from the mains to low voltage type and a number of these are dealt with in the final chapter, including a cassette power supply, ni-cad battery charger, voltage step-up circuit and a simple inverter.

0 900162 96 1 1980 178 x 111 mm 96 pages

MORE ADVANCED POWER SUPPLY PROJECTS

£2.95

R. A. Penfold

Covers more advanced topics than those dealt with in the original book BP76 and also covers developments since the original book was written.

Includes designs and circuitry for precision supplies, switch mode power supplies and computer controlled supplies as well as a number of miscellaneous circuits.

0 85934 166 6 1988 178 x 111 mm 96 pages

TEST EQUIPMENT CONSTRUCTION

£2.95

R. A. Penfold

Shows you how to build a wide range of simple test equipment that will be useful in the pursuance of your hobby after you have had the enjoyment of constructing it.

0 85934 193 3 1989 178 x 111 mm 112 pages

MORE ADVANCED TEST EQUIPMENT CONSTRUCTION

£2.95

R. A. Penfold

Follows on from book BP248 with constructional details of more advanced projects that will help you with your hobby.

0 85934 194 1 1989 178 x 111 mm 96 pages

ELECTRONIC GAMES

£1.75

R. A. Penfold

Contains a number of interesting electronic games projects all using modern integrated circuits. The text is divided into two sections, the first dealing with simple games and the latter dealing with more complex circuits thus making the book ideal for both beginner and more advanced enthusiast alike.

0 900162 90 2 1980 178 x 111 mm 96 pages

2. CIRCUITS & CONSTRUCTIONAL PROJECTS

ELECTRONIC SECURITY DEVICES

£2.50

R. A. Penfold

This book, besides including both simple and more sophisticated burglar alarm circuits using light, infra-red and ultra-sonics, also includes many other types of circuit as well such as gas and smoke detectors, flood alarms, doorphone and baby alarms, etc.

0 900162 76 7 1979 178 x 111 mm 112 pages

MORE ADVANCED ELECTRONIC SECURITY PROJECTS

£2.95

R. A. Penfold



Contains a number of more up-to-date and sophisticated projects, complete with PCB or stripboard layout, than our original book number BP56.

Covers:- Opto alarms including pyro-sensor, infra-red and fibre-optic loop types. A computer based system showing how a home micro fitted with a user port can form the basis of a sophisticated alarm and monitoring system. Various alarms using mercury switches, magnetic dependent resistors, doppler shift and capacity effect on an RF oscillator etc.

0 85934 164 X 1988 178 x 111 mm 112 pages

PROJECTS IN OPTO-ELECTRONICS

£1.95

R. A. Penfold

Although many people tend to take opto-electronic devices and circuits for granted, it is hoped that this book will show even the most experienced reader that they can be used in a surprisingly wide range of applications.

The purpose of this book is to describe a number of projects which may be of interest to all electronics enthusiasts. Included are simple circuits using ordinary light emitting diodes (LEDs) as well as more sophisticated designs such as infra-red transmitters and detectors, modulated light transmission and also photographic projects, etc.

0 85934 049 X 1978 178 x 111 mm 112 pages

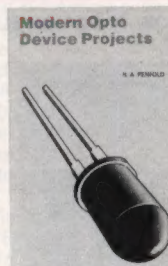
MODERN OPTO DEVICE PROJECTS

£2.95

R. A. Penfold

Provides a number of circuits using more modern devices than book number BP45.

Includes designs for:- simple fibre optic audio link; opto type circuit for RS232C type data transmission and reception; light pen for BBC, Atari, Commodore and Amstrad computers; presence detector; broken beam detector; infra red reflected light sensor; LED stroboscope; etc. PCB layouts are included for more critical designs.



0 85934 168 2 1987 178 x 111 mm 96 pages

SOLID STATE NOVELTY PROJECTS

£0.85

M. H. Babani

The reader is shown how to build a number of different novelty projects using ICs and transistors. Included are the "Optomin", a musical instrument that is played by reflecting a light beam with your hand, water warbler for pot plants, musical tone generator, LEDs and ladders game, touch switch, electronic roulette wheel, etc.

0 900162 60 0 1976 178 x 111 mm 96 pages

2. CIRCUITS & CONSTRUCTIONAL PROJECTS

2.5 METHODS OF DESIGN & CONSTRUCTION

PRACTICAL ELECTRONIC BUILDING BLOCKS—BOOK 1 PRACTICAL ELECTRONIC BUILDING BLOCKS—BOOK 2

BP117

£1.95

BP118

£1.95

R. A. Penfold



Virtually any electronic circuit will be found to consist of a number of distinct stages when analysed. Some circuits inevitably have unusual stages using specialised circuitry, but in most cases circuits are built up from electronic building blocks of standard types. These books are designed to aid electronic enthusiasts who like to experiment with circuits and produce their own projects, rather than simply following published project designs. The circuits for a number of building blocks are included in each book, and component values and type numbers are provided in each case.

Where relevant, details of how to change the parameters of each circuit (voltage gain of amplifiers, cut-off frequencies of filters, etc.) are given so that they can be easily modified to suit individual requirements. No difficult mathematics is involved.

BOOK 1 contains: Oscillators—sinewave, triangular, square-wave, sawtooth, and pulse waveform generators operating at audio frequencies, including simple voltage-controlled types, L-C and crystal RF oscillators. Timers—simple monostable circuits using ICs, and 555 and 7555 devices, etc. Also precision long timers using the ZN1034E. Miscellaneous—noise generators, rectifiers, comparators and triggers, etc.

BOOK 2 contains: Amplifiers—low level discrete and op-amp circuits, voltage and buffer amplifiers including DC types. Also low-noise audio and voltage controlled amplifiers. Filters—high-pass, low-pass, 6, 12, and 24 dB per octave types. Also voltage controlled filters. Miscellaneous—IC power amplifiers, mixers, voltage and current regulators, etc.

Book 1: 0 85934 092 9 1983 178 x 111 mm 128 pages

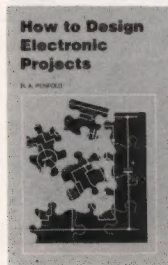
Book 2: 0 85934 093 7 1983 178 x 111 mm 112 pages

HOW TO DESIGN ELECTRONIC PROJECTS

£2.25

BP127

R. A. Penfold



The aim of this book is to help the reader to put together projects from standard building blocks with a minimum of trial and error, but without resorting to any advanced mathematics. Hints on designing circuit blocks to meet your special requirements where no "stock" design is available are also provided. The subject is tackled by taking a series of simple practical examples, analysing exactly what each circuit must do, exploring possible methods of achieving each circuit action, and then working out practical designs including all circuit values. Thus a number of useful circuits are provided in addition to project design advice.

0 85934 102 X 1983 178 x 111 mm 128 pages

HOW TO DESIGN AND MAKE YOUR OWN PCBs

£2.50

BP121

R. A. Penfold

Chapter 1 deals with the simple methods of copying printed circuit board designs from magazines and books and covers all aspects of simple PCB construction as comprehensively as possible.

2. CIRCUITS & CONSTRUCTIONAL PROJECTS

Chapter 2 covers photographic methods of producing PCB's and Chapter 3 deals with most aspects of designing your own printed circuit board layouts.

0 85934 096 1 1983 178 x 111 mm 80 pages

3. S.W., AMATEUR RADIO & COMMUNICATIONS

See also book numbers BP105, BP125, BP132, BP136, BP145, BP195 and BP198

SOLID STATE SHORT WAVE RECEIVERS FOR BEGINNERS

222

R. A. Penfold

Contains the designs and building details of several solid state short wave receivers that will give a fairly high level of performance, despite the fact that they use only relatively few and inexpensive components.

0 900162 62 7 1976 178 x 111 mm 96 pages

HOW TO BUILD ADVANCED SHORT WAVE RECEIVERS

226

R. A. Penfold

Gives the reader full practical constructional details of a number of advanced design receivers which should have levels of performance at least equal to that of commercially built sets of similar complexity.

Also includes a number of add-on circuits such as Q-multiplier, s-meter, noise limiter, etc., which can be used to aid and improve reception when using receivers.



0 900162 67 8 1977 178 x 111 mm 128 pages

COMMUNICATION

BP89

(Elements of Electronics—Book 5)

£2.95

F. A. Wilson

A look at the electronic fundamentals over the whole of the communication scene. This book aims to teach the important elements of each branch of the subject in a style as interesting and practical as possible. While not getting involved in the more complicated theory and mathematics, most of the modern transmission system techniques are examined including line, microwave, submarine, satellite and digital multiplex systems, radio and telegraphy. To assist in understanding these more thoroughly, chapters on signal processing, the electromagnetic wave, networks and transmission assessment are included, finally a short chapter on optical transmission. Preparing the way, the opening chapter looks at the very heart of communication, including channel capacity, information flow, cables and electro-acoustic transducers.

Books 1–4 and 6 in this series are described in the catalogue under book numbers BP62, BP63, BP64, BP77 and BP111.

0 85934 064 3 1981 178 x 111 mm 256 pages

AN INTRODUCTION TO RADIO DXING

£1.95

BP91

R. A. Penfold

Anyone can switch on a short wave receiver and play with the controls until they pick up something, but to find a particular station, country or type of broadcast and to receive it as clearly as possible with the minimum of distortion and interference requires a little more skill and knowledge. The object of this book is to help the reader do just that, which in essence is the fascinating hobby of radio DXing.

0 85934 066 X 1981 178 x 111 mm 112 pages

3. S.W., AMATEUR RADIO & COMMUNICATIONS

AN INTRODUCTION TO AMATEUR RADIO

£2.95

BP257

I. Poole

Gets you started with the fascinating hobby that enthral's so many people the world over.

0 85934 202 6 1989 178 x 111 mm 96 pages

INTERNATIONAL RADIO STATIONS GUIDE

£4.95

BP255

P. Shore

Totally revised and rewritten to replace the previous edition (BP155), this book contains considerably more information which is now divided into the following thirteen sections:-

- 1-Listening to SW Radio
- 2-ITU Country Codes
- 3-Worldwide SW Stations
- 4-European, Middle East & N. African LW Stations
- 5-European, Near East & N. African MW Stations
- 6-Canadian MW Stations
- 7-USA MW Stations
- 8-Broadcasts in English
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4. AERIALS

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The subject of aerials is vast but in this book the author has considered practical aerial designs, including active, loop and ferrite aerials which give good performances and are relatively simple and inexpensive to build. The complex theory and mathematics of aerial design have been avoided.

Also included are constructional details of a number of aerial accessories including a pre-selector, attenuator, filters and tuning unit.

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This concise book describes how to build 25 amateur band aerials that are simple and inexpensive to construct and perform well. The designs start with the simple dipole and proceed to beam, triangle and even a mini-rhombic made from four TV masts and about 400 feet of wire.

After the aerial discussion you will find a complete set of dimension tables that will help you spot an aerial on a particular frequency. Dimensions are given for various style aerials and other data needed for spacing and cutting phasing lengths. Also included are dimensions for the new WARC bands.

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4. AERIALS

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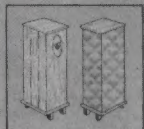
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Books 1–5 in this series are described in this catalogue under the book numbers BP62, BP63, BP64, BP77 and BP89.

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F. G. Rayer

This book covers in detail the construction of a wide range of audio projects. The text has been divided into the following main sections: Pre-amplifiers and Mixers, Power Amplifiers, Tone Controls and Matching, Miscellaneous Projects.

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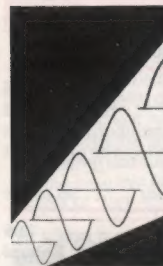
The following practical designs are featured and include circuit diagram and description, Veroboard or PCB layout and any necessary constructional or setting-up notes.

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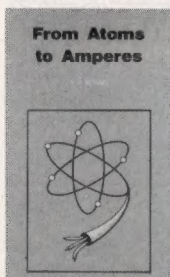
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B. B. Babani

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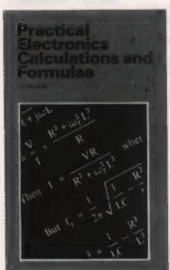
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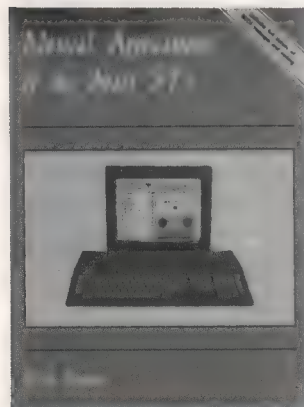
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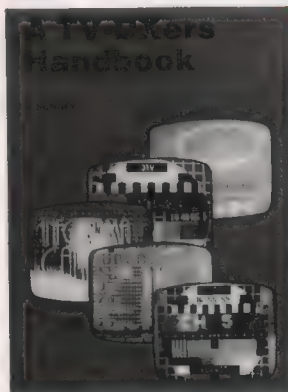
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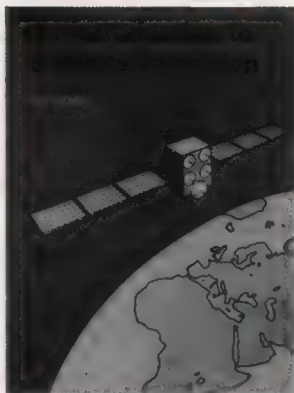
BP195
F. A. Wilson

As a definitive introduction to the subject this book is presented on two levels. For the absolute beginner with no previous knowledge, the story is told as simply as it can be in the main text.

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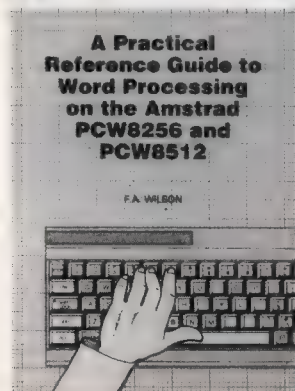
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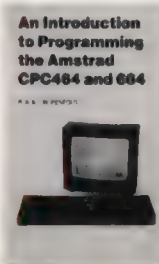
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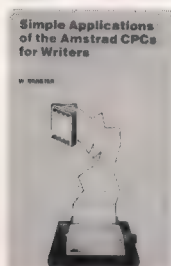
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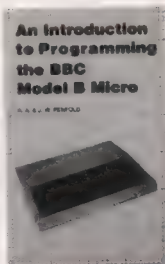
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BP128**S. Daly**

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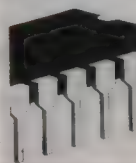
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**9.2 CHIP SPECIFIC
See also book number BP156****A Z-80 WORKSHOP MANUAL****£3.50**

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0 85934 087 2 1983 178 x 111 mm 192 pages

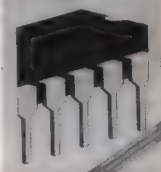
BP112**E. A. Parr**

This book is intended for people who wish to progress beyond the stage of BASIC programming to topics such as machine code and assembly language programming, or need hardware details of a Z-80 based computer.

AN INTRODUCTION TO Z80 MACHINE CODE**£2.75****R. A. & J. W. Penfold**

Takes the reader through the basics of microprocessors and machine code programming with no previous knowledge of these being assumed. The microprocessor dealt with is the Z80 which is used in many popular home computers and simple programming examples are given for Z-80 based machines including the Sinclair ZX-81 and Spectrum, Memotech and the Amstrad CPC 464. Also applicable to the Amstrad CPC 664 and 6128.

**An Introduction
to Z80
Machine Code**



0 85934 127 5 1984 178 x 111 mm 144 pages

AN INTRODUCTION TO 6502 MACHINE CODE**£2.95****R. A. & J. W. Penfold**

No previous knowledge of microprocessors or machine code is assumed. Topics covered are: assembly language and assemblers, the register set and memory, binary and hexadecimal numbering systems, addressing modes and the instruction set, and also mixing machine code with BASIC. Some simple programming examples are given for 6502-based home computers like the VIC-20, ORIC-1/Atmos, Electron, BBC and also the Commodore 64.

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**AN INTRODUCTION TO
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Obtain a vast increase in running speed by writing programs for 68000 based micros such as the Commodore Amiga, Atari ST range or Apple Macintosh range etc., in assembly language. It is not as difficult as one might think and this book covers the fundamentals.

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9.3 OPERATING SYSTEM & SOFTWARE SPECIFIC

A CONCISE INTRODUCTION TO UNIX
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N. Kantaris



If you are using or intend to use the UNIX multiuser operating system (or any of its variants) and want to get the most out of your computer system in terms of efficiency and productivity, then you must learn its operating system.

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Similar in style to BP232 and BP259 this small book helps the reader to get the most out of their computer in efficiency and productivity by showing them in the shortest and most effective way how the OS/2 operating system is used.

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R. A. Penfold

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A CONCISE INTRODUCTION TO dBASE
£3.95

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J. W. Penfold

Similar in style to BP261 and BP262 but this time covering one of the most popular of spreadsheet packages.

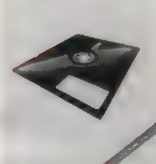
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AN INTRODUCTION TO CP/M
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BP183
R. A. Penfold

An Introduction to CP/M

R. A. PENFOLD



CP/M is more than just a program to give a common set of standards and hence software compatibility between various computers. It includes a range of commands that help with such things as file copying and editing, the directing of data to the appropriate device etc. In order to get the best from CP/M and the programs running under it, a basic understanding of the system is highly desirable, and this book tells the story.

0 85934 157 7 1986 178 x 111 mm 96 pages

A CONCISE INTRODUCTION TO GEM
£3.95

BP230
J. W. Penfold

GEM is a system of computer control consisting of pictorial representations of files and operations which are then manipulated by the user with a device called a "mouse" which is pushed around on a desk so moving a pointer on screen.

This book explains to the beginner all he or she is likely to need to know about GEM.

0 85934 175 5 1989 198 x 130 mm 96 pages

A CONCISE INTRODUCTION TO MS-DOS
£2.95

BP232
N. Kantaris

This guide is written with the non-expert, busy person in mind and, as such, it has an underlying structure based on "what you need to know first, appears first". Nonetheless, the guide is also designed to be circular, which means that you don't have to start at the beginning and go to the end. The more experienced user can start from any section. Now covers versions 3.3 and 4.0.

The guide explains:

How the DOS operating system is structured so that you understand what happens when you first switch on your computer.

How to use the DOS commands to perform various housekeeping operations on your disc files.

How to use the EDLIN line editor to fully configure your system by writing your own CONFIG.SYS and AUTOEXEC. BAT files.

How directories and sub-directories can be employed to organize the way you keep files on your disc so that your system's efficiency is maximized.

How to write batch files to automate the operation and use of your system.

How to manage your system's environment.

The book covers all versions of 3.x of both PC-DOS and MS-DOS as implemented by IBM and other manufacturers of "compatible" micro-computers, including the AMSTRAD PCs. Coverage extends to both the floppy disc-based and hard disc-based systems. A separate section deals with the DOS shell of version 4.0, which is a menu-driven graphical interface making this version of the operating system easier to use. Familiarity with this version of DOS will make migration to the new operating system OS/2 that much easier.

0 85934 177 1 (Revised Edition) 1989 198 x 130 mm 80 pages

A CONCISE ADVANCED USER'S GUIDE TO MS-DOS
£2.95

BP264
N. Kantaris

Follows on from book BP232, this short but practical guide shows the reader some of the more advanced aspects of the DOS operating system.

0 85934 209 3 1989 198 x 130 mm 80 pages

9.4 PROGRAMMING & LANGUAGES

See also book numbers BP154 and BP188

BASIC & PASCAL IN PARALLEL

£1.50

S. J. Wainwright

BP126

Takes the two languages — BASIC and PASCAL, and develops programs in both languages simultaneously. The common ground between the two languages is covered and emphasis is placed on the similarities rather than the differences between them.

0 85934 101 1 1983 178 x 111 mm 64 pages

PROGRAMMING IN FORTRAN 77

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N. Kantaris

BP250



This book is a guide to Fortran programming. Although similarities between Fortran commands and/or statements and those of other languages are occasionally highlighted in the text, the reader is not expected to have any familiarity with such languages.

Fortran statements are introduced and explained with the help of simple programs. The user is encouraged to type these into the computer, save them, and keep improving them as more complex language statements and commands are encountered.

Graded problems are set throughout the book, with full working solutions appearing

at the back of the book. At the end of each chapter, additional graded exercises are presented, some with financial or scientific bend, so that users can choose their own level of problem difficulty on which to practice with some additional choice in the preference of the field of application.

0 85934 195 X 1988 198 x 130 mm 160 pages

BASIC & FORTRAN IN PARALLEL

£1.95

S. J. Wainwright & A. Grant

BP137

Similar in nature to books BP126 and BP138. Includes a FORTRAN interpreter written for the 16K Spectrum.

0 85934 112 7 1984 178 x 111 mm 96 pages

BASIC & FORTH IN PARALLEL

£1.95

S. J. Wainwright

BP138

Similar in style to books BP126 and BP137 but this time the computer languages BASIC and FORTH are considered simultaneously; again, the emphasis being placed on their common ground rather than their differences. Includes a FORTH stack simulator that will run on either a 16K or 48K Spectrum.

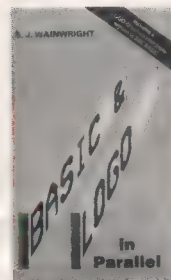
0 85934 113 5 1984 178 x 111 mm 112 pages

BASIC & LOGO IN PARALLEL

£2.95

BP196

S. J. Wainwright



Again similar in style to the three previous books but BASIC and LOGO are compared and contrasted. LOGO is not only an educational language but it can also be used for more serious applications as it is hoped this book will show. Included is a LOGO Graphics interpreter written in BBC BASIC.

0 85934 171 2 1988 178 x 111 mm 160 pages

LOGO FOR BEGINNERS

£2.95

BP193

J.W. Penfold

The ideal book for all those who want to start programming in LOGO which commences at the absolute beginning and progresses right up to the elements of artificial intelligence.

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AN INTRODUCTION TO C

£2.95

BP252

R. A. & J. W. Penfold

Just as the title states, this is the book for those who want to start programming in the computer language C but, as yet, do not know anything about it.

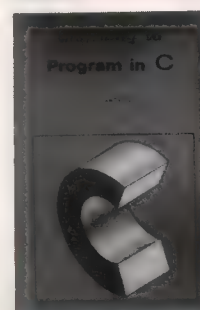
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LEARNING TO PROGRAM IN C

£4.95

BP258

N. Kantaris



This book is a guide to C programming. C statements are introduced and explained with the help of simple, but completely working programs. The user is encouraged to save these, and keep improving them as more complex language statements and commands are encountered. Graded problems are set at the end of each chapter and full working solutions are given.

0 85934 203 4 1989 198 x 130 mm 144 pages

THE PRE-BASIC BOOK

£2.95

BP146

F. A. Wilson

Another book on BASIC but with a difference. This one does not skip through the whole of the subject and thereby leave many would-be programmers floundering but instead concentrates on introducing the technique by looking in depth at the most frequently used and more easily understood computer instructions.

0 85934 121 6 1985 178 x 111 mm 192 pages

**AN INTRODUCTION TO
BASIC PROGRAMMING TECHNIQUES****BP86****£1.95****S. Daly**

Based on the author's own experience in learning BASIC and in helping others, mostly beginners — to program and understand the language. This book includes a program library and finishes with a number of appendices which include a glossary and test questions and answers on each chapter.

0 85934 061 9 1981 178 x 111 mm 96 pages

**A CONCISE INTRODUCTION TO
THE LANGUAGE OF BBC BASIC****BP149****£1.95****T. J. E. Murphy**

A clear and concise introduction to BBC BASIC as used by the BBC micros and the ACORN ELECTRON etc.

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**HOW TO GET YOUR
COMPUTER PROGRAMS RUNNING****BP169****£2.50****J. W. Penfold**

Have you ever written your own programs only to find that they did not work! Help is now at hand with this book which shows you how to go about looking for your errors, and help you to avoid the common bugs and pitfalls of program writing. Applicable to all dialects of the BASIC language.



0 85934 143 7 1985 178 x 111 mm 96 pages

**AN INTRODUCTION TO BASIC-2 ON THE
AMSTRAD PC's****BP199****£5.95****J. W. Penfold**

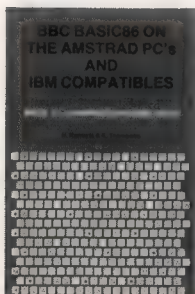
All the beginner needs to know about the version of the BASIC language as used by Amstrad on the PC1512 and PC1640.

0 85934 174 7 1987 264 x 195 mm 96 pages

**BBC BASIC86 ON THE AMSTRAD PC's
AND IBM COMPATIBLES****Book 1—LANGUAGE****BP243****£3.95****Book 2—GRAPHICS AND DISK FILES****BP244****£3.95****N. Kantaris & K. Thompson**

Book 1: This book is specifically designed for use with the AMSTRAD PC's and IBM compatibles running BBCBASIC86 — the structured language that users of the BBC computer have learned to love. BBC BASIC statements are introduced and explained with the help of simple programs. This enables the user to build up a considerable library of his own programs and procedures which become the building blocks of advanced programming techniques.

Book 2: This book explores the graphics and disk filing capabilities of BBCBASIC86 running on the AMSTRAD PC's and IBM compatibles. It is ideal for those users who



would like to be led through the intricate path of multi-screen graphics, error-handling routines and database filing systems, all of which are illustrated and incorporated into working programs.

Book 1: 0 85934 188 7 1988 198 x 130 mm 112 pages

Book 2: 0 85934 189 5 1988 198 x 130 mm 112 pages

9.5 ADD-ONS & INTERFACING**See also book number BP177 and BP182****MICRO INTERFACING CIRCUITS—Book 1****BP130****£2.25****MICRO INTERFACING CIRCUITS—Book 2****BP131****£2.75****R. A. Penfold**

Both books include practical circuits together with details of the circuit operation and useful background information. Any special constructional points are covered but PCB layouts and other detailed constructional information are not included.

BOOK 1 is mainly concerned with getting signals in and out of the computer.

BOOK 2 deals primarily with circuits for practical applications.

Book 1: 0 85934 105 4 1984 178 x 111 mm 112 pages

Book 2: 0 85934 106 2 1984 178 x 111 mm 112 pages

**EASY ADD-ON PROJECTS FOR
SPECTRUM, ZX81 & ACE****BP124****£2.95****O. Bishop**

Describes how to build a number of electronic projects which you can use with your Spectrum, ZX81 or Jupiter Ace micro-computer. The projects include a Pulse Detector, Picture Digitiser, Five-key Pad, Model Controller, Bleeper, Lamp Flasher, Light pen, Magnetic Catch, Lap Sensor, Photo-flash, Games Control and six more projects that make up a Weather Station. All are fairly simple and inexpensive to construct.

The address decoder is constructed as a separate item that can be used with any of the projects.

0 85934 099 6 1983 178 x 111 mm 192 pages

EASY ADD-ON PROJECTS FOR**BP171****AMSTRAD CPC 464, 664, 6128 AND MSX COMPUTERS****£2.95****O. Bishop**

The projects in book BP124 adapted for use with the Amstrad CPC 464, 664, 6128 and the MSX range of machines. But this time there is no need to construct an address decoder as these computers are accessed via their joystick or printer ports.

0 85934 145 3 1986 178 x 111 mm 160 pages

AN INTRODUCTION TO COMPUTER PERIPHERALS**BP170****£2.50****R. A. & J. W. Penfold**

Covers such items as monitors, printers, disc drives, cassette recorders, modems, etc. explaining what they are, how to use them and the various types and standards. Helps you make sure that peripherals you buy will work with your computer and with each other.

0 85934 144 5 1985 178 x 111 mm 80 pages

GETTING THE MOST FROM YOUR PRINTER**BP181****£2.95****J. W. Penfold**

Details how to use all the features provided on most dot-matrix printers from programs and popular word processor packages like Wordwise, Visawrite and Quill, etc. Shows exactly what must be typed in to achieve a given effect.

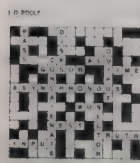
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9.6. GENERAL & PRACTICAL INTRODUCTIONS

COMPUTER HOBBYISTS HANDBOOK**BP251****£5.95****R. A. & J. W. Penfold**

Provides a single, quick reference source to a cornucopia of data and information that the computer hobbyist is likely to find useful.

0 85934 196 8 1989 264 x 195 mm 128 pages

COMPUTER TERMINOLOGY EXPLAINED**BP148****£1.95****I. D. Poole****Computer Terminology Explained**

Explains a wide range of terms that form the computer jargon used by enthusiasts and which also appears in books and magazines. Also includes a reference guide to the more commonly used BASIC commands found on most micro-computers.

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THE PRE-COMPUTER BOOK**BP115****£1.95****F. A. Wilson**

Aimed at the absolute beginner with no knowledge of computing. An entirely non-technical discussion on computer bits and pieces and programming.

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PRACTICAL COMPUTER EXPERIMENTS**BP78****£1.75****E. A. Parr**

This book aims to fill in the background to the micro-processor by constructing typical computer circuits in discrete logic and it is hoped that this will form a useful introduction to devices such as adders, stores, etc., as well as a general source book of logic circuits.

0 900162 98 8 1980 178 x 111 mm 96 pages

MICROPROCESSING SYSTEMS AND CIRCUITS**BP77****(Elements of Electronics - Book 4)****£2.95****F. A. Wilson**

A truly comprehensive guide to the elements of micro-processing systems which really starts at the beginning. Teaches the reader the essential fundamentals that are so important for a sound understanding of the subject.

The other books in this series are BP62, BP63, BP64, BP89 and BP111.

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A MICROPROCESSOR PRIMER**BP72****£1.75****E. A. Parr**

Starts by designing a small computer and because of its simplicity and logical structure, the language is easy to learn and understand. The shortcomings are then discussed and the reader is shown how these can be overcome by changes and additions to the instruction set. In this way, such ideas as relative addressing, index registers, etc., are developed.

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9.7 SPECIALIST APPLICATIONS

See also book number BP173 and BP191

AN INTRODUCTION TO COMPUTER GRAPHICS FOR IBM AND COMPATIBLES**BP268****£4.95****S. J. Wainwright & G. Jones**

Covers the fundamentals of computer graphics from basic principles through to shape generation and manipulation, 3D graphics, in-betweening and dumping graphics screens to the printer.

Another section of the book deals with the use of graphic devices such as light pens, mice, tablets and joysticks.

Graphical languages, such as LOGO and menu or ICON-driven graphics packages such as Uniras and Paint will also be covered.

0 85934 213 1 1989 198 x 130 mm 160 pages

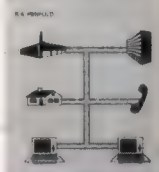
AN INTRODUCTION TO DESK TOP PUBLISHING**BP269****£5.95****R. A. & J. W. Penfold**

Introduces the reader to the general principles and practicalities of desk top publishing. Illustrated by some of the popular low cost DTP programs such as Fantasy and Timeworks etc.

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AN INTRODUCTION TO COMPUTER COMMUNICATIONS**BP177****£2.95****R. A. Penfold**

Provides details of the various types of modem and their suitability for specific applications, plus details of connecting various computers to modems, and modems to the telephone system. Also includes information on common networking systems and RTTY.

An Introduction to Computer Communications

0 85934 151 8 1986 178 x 111 mm 80 pages

See also book numbers BP169, BP248 and BP249

HOW TO GET YOUR ELECTRONIC PROJECTS WORKING**BP110****£2.50****R. A. Penfold**

We have all built circuits from magazines and books only to find that they did not work correctly, or at all, when first switched on. The aim of this book is to help the reader overcome just these problems by indicating how and where to start looking for many of the common faults that can occur when building up projects.

Chapter 1 deals with the mechanical faults such as tracing dry joints, short-circuits, broken PCB tracks, etc. The construction and use of a tristate continuity tester, to help in the above, is also covered.

Chapter 2 deals with linear analogue circuits and also covers the use and construction of a signal injector/tracer which can be used to locate and isolate the faulty areas in a project.

Chapter 3 considers ways of testing the more common components such as resistors, capacitors, op amps, diodes, transistors, SCRs, unijunctions, etc., with the aid of only a limited amount of test equipment.

Chapter 4 deals with both TTL and CMOS logic circuits and includes the use and construction of a pulse generator to help fault-finding.
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TRANSISTOR RADIO FAULT-FINDING CHART £0.95

BP70

C. E. Miller

Used properly, it should enable the reader to trace most common faults reasonably quickly. Across the top of the chart will be found four rectangles containing brief descriptions of these faults, *vis* sound weak but undistorted, set dead, sound low or distorted and background noises. One then selects the most appropriate of these and following the arrows, carries out the suggested checks in sequence until the fault is cleared.

0 900162 86 4 1980

Chart

AUDIO AMPLIFIER FAULT-FINDING CHART £0.95

BP120

C. E. Miller

This chart will help the reader to trace most common faults that might occur in audio amplifiers. Across the top of the chart are two "starting" rectangles, *vis* Low/Distorted Sound Reproduction and No Sound Reproduction: after selecting the most appropriate one of these, the reader simply follows the arrows and carries out the suggested checks until the fault is located and rectified.

0 85934 095 3 1987

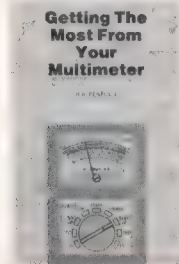
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GETTING THE MOST FROM YOUR MULTIMETER £2.95

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R. A. Penfold

It is amazing just what you can check and test with a simple multimeter if you know what you are doing. This book tells the story, with Chapter 1 covering the basics and relative merits of analogue and digital instruments. Chapter 2 discussing component checking and Chapter 3 dealing with circuit testing.



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R. A. Penfold

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R. A. Penfold

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M. H. Babani

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A comprehensive section of conversion factors covering such common conversions as length, area, volume and weight, etc., through to more specialised conversions such as viscosity, illumination, and cargo shipping measures, etc.

Formulae for VAT, discounts and mark-up currency conversions, interest, solutions of equations, binary and octal numbers, areas and volumes, statistics and mathematics, etc.

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YOUR ELECTRONIC CALCULATOR AND YOUR MONEY

BP54

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F. A. Wilson

All you need to know is how to add, subtract, multiply and divide on even the most inexpensive calculator: then this book will help you through most everyday money calculations with, hopefully, useful advice where appropriate.

The book starts with a basic revision of the Mathematics of Money (e.g., percentages, decimals, etc.). It is then divided into three other sections: The Calculator in the Home — covering such topics as mortgages, cars, insurance, fuel, shopping, gambling, income tax, etc.; Investment — which includes interest rates, savings, shares, etc. The final section deals with the Calculator in a Small Business.

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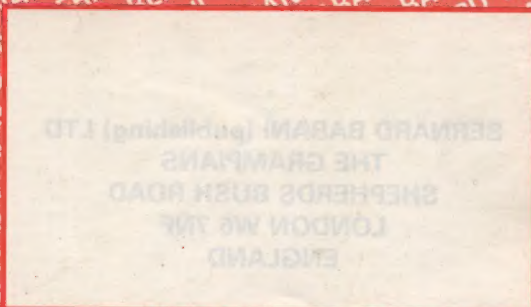
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